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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

### Complete if Known

Application Number	09/724,959
Filing Date	November 28, 2000
First Named Inventor	Dempsy, Robert O.
Art Unit	1634
Examiner Name	Chakrabarti
Attorney Docket Number	17682A-003610US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AC	A1	09/457,616	Filed 12-08-1999	Reed et al.	
	A2	6,339,147 B1	01-15-2002	Lukhtanov et al.	
	A3	6,312,894 B1	11-06-2001	Hedgpeth et al.	
	A4	3,996,345	12-07-1976	Ullman et al.	
	A5	4,351,760	09-28-1982	Khanna et al.	
	A6	4,358,535	11-09-1982	Falkow et al.	
	A7	4,683,195	07-28-1987	Mullis et al.	
	A8	4,683,202	07-28-1987	Mullis	
	A9	4,800,159	01-24-1989	Mullis et al.	
	A10	4,868,105	09-19-1989	Urdea et al.	
	A11	5,124,246	06-23-1992	Urdea et al.	
	A12	5,177,196	01-05-1993	Meyer, Jr. et al.	
	A13	5,210,015	05-11-1993	Gelfand et al.	
	A14	5,419,966	05-30-1995	Reed et al.	
	A15	5,449,767	09-12-1995	Ward et al.	
	A16	5,484,908	01-16-1996	Froehler et al.	
	A17	5,492,806	02-20-1996	Drmanac et al.	
	A18	5,512,667	04-30-1996	Reed et al.	
	A19	5,525,464	06-11-1996	Drmanac et al.	
	A20	5,556,749	09-17-1996	Mitsuhashi et al.	
	A21	5,556,752	09-17-1996	Lockhart et al.	
	A22	5,585,481	12-17-1996	Arnold, Jr., et al.	
	A23	5,645,985	07-08-1997	Froehler et al.	
	A24	5,696,251	12-09-1997	Arnold, Jr. et al.	
	A25	5,736,626	04-07-1998	Mullah et al.	
	A26	5,801,155	09-01-1998	Kutyavin et al.	
	A27	5,824,796	10-20-1998	Petrie et al.	
	A28	5,942,610	08-24-1999	Nelson et al.	
	A29	6,127,121	10-03-2000	Meyer, Jr. et al.	
	A30	5,849,482	12-15-1998	Meyer, Jr. et al.	

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Sheet 2 of 6**Complete if Known**

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Filing Date	November 28, 2000
First Named Inventor	Dempcy, Robert O.
Art Unit	1634
Examiner Name	Chakrabarti
Attorney Docket Number	17682A-003610US

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TECH CENTER 600/2900**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
AC	B1	WO	96/32496		10-17-1998	Microprobe Corporation		
	B2	WO	92/10588		06-25-1992	Affymax Technologies N.V.		
	B3	WO	96/17957		06-13-1996	Hyseq, Inc.		
	B4	WO	99/37085		07-22-1999	Comsat Corporation		
	B5	WO	99/51775		10-14-1999	Epoch Pharmaceuticals Inc.		
	B6	WO	98/49180		11-05-1998	Epoch Pharmaceuticals Inc.		
	B7	WO	99/51621		10-14-1999	Epoch Pharmaceuticals Inc.		
	B8	WO	90/03370		05-05-1990	Microprobe Corporation		
AC	B9	WO	00/06771		02-10-2000	Affymetrix, Inc.		
	B10	WO	97/46313		12-11-1997	Array Technologies		

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 6

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Art Unit	1634
Examiner Name	Chakrabarti
Attorney Docket Number	17682A-003610US

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## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ac	C1	ALLAWI, Halim T. et al., "Thermodynamics and NMR of Internal G-T Mismatches in DNA", <i>Biochemistry</i> , Vol. 36:10581-10595 (1997)	
	C2	BALOW, Guity et al., "Biophysical and antisense properties of oligodeoxynucleotides containing 7-propynyl-, 7-iodo- and 7-cyano-7-deaza-2-amino-2'-deoxyadenosines", <i>Nucleic Acids Research</i> , Vol. 26, No. 14:3350-3357 (1998)	
	C3	BEAUCAGE, Serge L. et al., "Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach", <i>Tetrahedron Report Number 309</i> Vol. 48, No. 12:2223-2311 (1992), Pub. in Great Britain	
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	C6	CAPALDI, Stephen et al., "Signal amplification through nucleotide extension and excision on a dendritic DNA platform", <i>Nucleic Acids Research</i> , Vol. 28, No. 7:E21 (2000) -- Oxford University Press	
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	C8	DRAPER, David E. et al., "A Method for Linking Fluorescent Labels to Polynucleotides: Application to Studies of Ribosome-Ribonucleic Acid Interactions", <i>Biochemistry</i> Vol. 19:1774-1781 (1980) -- American Chemical Society	
	C9	EISEN, Michael B., et al., "DNA Arrays for Analysis of Gene Expression", <i>Methods In Enzymology</i> , Vol. 303:179-205 (1999) -- Academic Press	
	C10	FLANAGAN, W. Michael et al., "Elucidation of gene function using C-5 propyne antisense oligonucleotides", <i>Nature Biotechnology</i> , Vol. 14:1139-1145 (1996)	
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	C13	HACIA, Joseph G. et al., "Mutational analysis using oligonucleotide microarrays", <i>J. Mol. Genet.</i> , Vol. 36:730-736 (1999)	
	C14	HALL, Jeff G. et al., "Sensitive detection of DNA polymorphisms by the serial invasive signal amplification reaction", <i>PNAS</i> Vol. 97, No. 15:8272-77 (2000)	
	C15	HEID, Christian A. et al., "Real Time Quantitative PCR", <i>Genome Research</i> Vol. 6:986-994 (1996) -- Cold Spring Harbor Laboratory Press	
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STATEMENT BY APPLICANT**

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Sheet 4 of 6**Complete if Known**

Application Number	09/724,959
Filing Date	November 28, 2000
First Named Inventor	Dempcy, Robert O.
Art Unit	1634
Examiner Name	Chakrabarti
Attorney Docket Number	17682A-003610US

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**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ac	C17	LOHKOV, S.G., "Thermodynamic and spectral properties of DNA miniduplexes with the terminal G-A mispairs and 3' or 5' dangling bases", <i>FEBS Letters</i> Vol. 420:134-138 (1997) -- Federation of European Biochemical Societies	
	C18	LYAMICHEV, Victor et al., "Polymorphism identification and quantitative detection of genomic DNA by invasive cleavage of oligonucleotide probes", <i>Nature Biotechnology</i> , Vol. 17:292-296 (1999)	
	C19	MUELLER, James D. et al., "Self-sustained sequence replication (3SR): an alternative to PCR", <i>Histochem. Cell Biol.</i> , Vol. 108:431-437 (1997) -- Springer-Verlag	
	C20	NIELSEN, Peter E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide" <i>Science</i> , Vol. 254:1497-1500 (1991)	
	C21	OWCZARZY, Richard et al., "Predicting Sequence-Dependent Melting Stability of Short Duplex DNA Oligomers", <i>Biopolymers "Sequence-Dependent Melting Stability"</i> , Vol. 44:217-239 (1997) -- John Wiley & Sons, Inc. 1998	
	C22	PALISSA, Manfred et al., Reduktion geschützter 2'-Chlor-2'-desoxydinucleotide mit Tri-n-butylzinnhydrid", <i>Z. Chem.</i> , Vol. 27:216 (1987)	
	C23	PASTINEN, Tom et al., "A System for Specific, High-throughput Genotyping by Allele-specific Primer Extension on Microarrays", <i>Genome Research</i> , Vol. 10:1031-42 (2000) -- Cold Spring Harbor Laboratory Press	
	C24	RAMZAEVA, Natalya et al., "123. 7-Deazaguanine DNA: Oligonucleotides with Hydrophobic or Cationic Side Chains", <i>Helvetica Chimica. Acta</i> , Vol. 80:1809-1822 (1997)	
	C25	REDDY, B.S. Praveen et al., "Synthetic DNA minor groove-binding drugs", <i>Pharmacology &amp; Therapeutics</i> , Vol. 84:1-111 (1999) -- Elsevier Science Inc.	
	C26	SCHÜTZ, Ekkehard et al., "Spreadsheet Software for Thermodynamic Melting Point Prediction of Oligonucleotide Hybridization with and without Mismatches" <i>BioTechniques</i> , Vol. 27, No. 6:1218-22 (1999)	
	C27	SEELA, Frank et al., "Synthesis of oligonucleotides containing pyrazolo [3,4-d]-pyrimidines: The influence of 7-substituted 8-aza-7-deazaadenines on the duplex structure and stability", <i>J. Chem. Soc. Perkin Trans.</i> , Vol. 1:479-486 (1999)	
	C28	SEELA, Frank et al., "The N <sup>6</sup> -(2'-deoxyribofuranoside) of 8-aza-7-deazaadenine: a universal nucleoside forming specific hydrogen bonds with the four canonical DNA constituents", <i>Nucleic Acids Research</i> , Vol. 28, No. 17:3224-3232 (2000) -- Oxford University Press	
	C29	SINGH, Sanjay et al., "LNA (locked nucleic acids): synthesis and high-affinity nucleic acid recognition", <i>Chem. Comm.</i> , 455-456 (1998)	
	C30	SMITH, C.C. et al., "Modified adenovirus penton base protein (UTARVE) as a non-replicating vector for delivery of antisense oligonucleotides with antiviral and/or antineoplastic activity", <i>International Journal of Oncology</i> , Vol. 17:841-850 (2000)	
X	C31	SUGIMOTO, Naoki et al., "Thermodynamic Parameters To Predict Stability of RNA/DNA Hybrid Duplexes", <i>Biochemistry</i> Vol. 34, No. 35:11211-11216 (1995) -- American Chemical Society	
Ac	C32	TATON, T. Andrew et al., "Scanometric DNA Array Detection with Nanoparticle Probes", <i>Science</i> Vol. 289:1757-1760 (2000)	

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Arum Kr. Chakrabarti

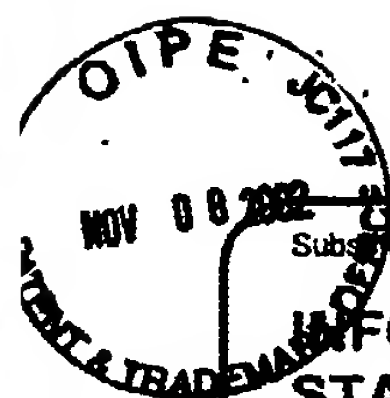
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Sheet 5 of 6

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**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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AC	C33	TAYLOR, Edward C. et al., "Synthesis of Pyrazolo[3,4-d]pyrimidine Analogues of the Potent Antitumor Agent N-{4-[2-(2-Amino-4(3H)-oxo-7H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl}-L-glutamic Acid (LY231514) Tetrahydron, Vol. 48, No. 37:8089-8100 (1992) -- Pergamon Press Ltd.	
	C34	UHLMANN, Eugen et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Reviews</i> , Vol. 90, No. 4:543-584 (1990) -- American Chemical Society	
	C35	UHLMANN, Eugen et al., "PNA: Synthetic Polyamide Nucleic Acids with Unusual Binding Properties", <i>Angew. Chem. Int. Ed.</i> 37:2796-2823 (1998) -- WILEY-VCH Verlag GmbH, D-69451 Weinheim, 1998	
	C36	VAN NESS, Jeffrey et al., "A versatile solid support system for oligodeoxynucleotide probe-based hybridization assays", <i>Nucleic Acids Research</i> Vol. 19, No. 12:5143-5151 (1991) -- Oxford University Press	
	C37	VINCENT, Stéphane et al., "Hydrolysis and Hydrogenolysis of Formamidines: N,N-Dimethyl and N,N-Dibenzyl Formamidines as Protective Groups for Primary Amines", <i>J. Org. Chem.</i> , Vol. 64, No. 3:991-997 (1999) -- American Chemical Society	
	C38	WALKER, Wynn L. et al., "Progress in the Design of DNA Sequence-Specific Lexitropsins", <i>Biopolymers</i> , Vol. 44:323-334 (1997)	
	C39	WEMMER, David E. et al., "Targeting the minor groove of DNA", <i>Current Opinion in Structural Biology</i> , Vol. 7:355-361 (1997)	
	C40	WENGEL, Jesper, "Synthesis of 3'-C- and 4'-C-Branched Oligodeoxynucleotides and the Development of Locked Nucleic Acid (LNA)", <i>Acc. Chem. Res.</i> , Vol. 32:301-310 (1998) -- American Chemical Society	
	C41	ZHANG, Hong et al., "Reduction of liver Fas expression by an antisense oligonucleotide protects mice from fulminant hepatitis", <i>Nature Biotechnology</i> , Vol. 18:852-867 (2000) -- Nature America Inc.	
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	C43	SEELA, F. et al., "8-AZA-7-Deazapurine DNA: Synthesis And Duplex Stability Of Oligonucleotides Containing 7-Substituted Bases," <i>Nucleosides &amp; Nucleotides</i> , 18(8&7):1399-1400 (1999)	
	C44	SEELA, F. et al., "Oligonucleotides Containing Pyrazolo [3,4-d] pyrimidines: The Influence of 7-Substituted 8-Aza-7-deaza-2'-deoxyguanosines on the Duplex Structure and Stability," <i>Helvetica Chimica Acta</i> , Vol. 82:1640-1655 (1999)	
	C45	SEELA, F. et al., "Duplex Stability Of Oligonucleotides Containing 7-Substituted 7-DEAZA- AND 8-AZA-7-Deazapurine Nucleosides," <i>Nucleosides &amp; Nucleotides</i> , 16(7-9):963-966 (1997)	
	C46	SEELA, F. et al., "131. 8-Aza-7-deaza-2'-deoxyguanosine: Phosphoramidite Synthesis and Properties of Octanucleotides," <i>Helvetica Chimica Acta</i> , Vol. 71:1191-1197 (1988)	
AC	C47	SEELA, F. et al., "The Influence of Modified Purine Bases on the Stability of Parallel DNA," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> , 10:289-292 (2000)	

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AC	C48	SEELA, F. et al. "Synthesis of 7-alkynylated 8-aza-7-deaza-2'-deoxyadenosines via the Pd-catalysed cross-coupling reaction," <i>J. Chem. Soc., Perkin Trans.</i> , 1:3233-3239 (1998)	
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	C51	CRUICKSHANK, K.A. et al. "Oligonucleotide Labelling: A Concise Synthesis Of A Modified Thymidine Phosphoramidite," <i>Tetrahedron Letters</i> , Vol. 29 No. 41, pp 5221-5224 (1988)	
✓	C52	ROBINS, M.J. et al. "Nucleic Acid Related Compounds. 39. Efficient Conversion of 5-Iodo to 5-Alkynyl and Derived 5-Substituted Uracil Bases and Nucleosides," <i>J. Org. Chem.</i> , 48:1854-1862 (1983)	
AC	C53	CLERCQ, E.D. et al. "Nucleic Acid Related Compounds. 40. Synthesis and Biological Activities of 5-Alkynyluracil Nucleosides," <i>Journal of Medicinal Chemistry</i> , Vol. 26, No. 5:661-666 (1983)	

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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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